



Compiled from USGS 1:24 000-scale topographic maps dated 1962-1980. Planimetry revised from aerial photograph taken 1984 and other source data. Revised information not field checked. Map edited 1985

Projection and 10 000-meter grid, zone 14,
Universal Transverse Mercator
25 000-foot grid ticks based on Iowa coordinate system,
north zone and South Dakota coordinate system, south zone
1927 North American Datum

To place on the predicted North American Datum 1983, move the projection lines 6 meters north and 26 meters east

There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

1°42'

31 MILS 124 MILS

1	2	3
4	5	6
7	8	

- 1 Salem
- 2 Sioux Falls
- 3 Worthington
- 4 Fremont
- 5 Iowa Great Lakes
- 6 Yankton
- 7 Sioux City North
- 8 Storm Lake

To convert meters to feet multiply by 3.2808
 To convert feet to meters multiply by 0.3048

UTM grid convergence (GN) and 1983 magnetic declination (MN) at center of map
 Diagram is approximate

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USGS NMD HISTORICAL MAP

MAR 02 1990

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Topographic Map Symbols

- | | |
|---|--|
| Primary highway, hard surface | |
| Secondary highway, hard surface | |
| Light duty road, principal street, rail or improved surface | |
| Railroad track or street, trail | |
| Municipal waterline; Interstate U.S. State | |
| Unimproved road; narrow gauge railroad; overpass; underpass | |
| Tunnel; road; railway | |
| Built up area; locality; elevation | |
| Airport; landing field; landing strip | |
| National boundary | |
| County boundary | |
| National or State reservation boundary | |
| Land grant boundary | |
| U.S. public lands survey: range, township; section | |
| Dam; township; section line; protected | |
| Irrigation transmission line; pipeline | |
| Cemetery; building | |
| Windmill; water well; spring | |
| Mine shaft; adit; cave; mine quarry; gravel pit | |
| Campground; picnic area; U.S. location monument | |
| Artificial dwelling | |
| Distorted surface; strip mine, lava sand | |
| Contours: index, intermediate; supplementary | |
| Bathymetric contours: index; intermediate | |
| Stream, lake: perennial; intermittent | |
| Rapids, large and small; falls, large and small | |
| Swamp too submerged; marsh, swampy | |
| Land subject to controlled inundation; woodland | |
| Sagebrush | |
| Richard; vineyard | |

A pamphlet describing topographic maps is available on request